ATLONA
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User Manual

1x16 HDMI Distribution Amplifier
AT-HD-V116

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USA ★★★★★ SINCE 2003

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INTRODUCTION

Atlona Technologies' AT-HD-V116 isa 1x16 HDMI Distribution Amplifier designed to work as a splitter for any High Definition Video application. With 1 HDMI Inputand 16HDMI Outputs, the AT-HD-V116 is capable ofsplitting High Definition signal from one source to sixteen separate displays with compatible inputs. With a built in amplifier, this unit has the ability to boost this signal great distance, while preventing both signal loss and picture degrada¬tion. This splitter supports data rates up to 6.75 Gbps and enables HDMI formats at resolutions up to 1080p or 1920x1200 and WUXGA DVI resolution at (1920x1200). With HDCP Compatibility, Atlona's 1x16 HDMI Distribution
Amplifier is perfect for all applications sending High Definition Video signal to multiple displays.

FEATURES

- 1x16 HDMI Distribution Amplifier: 1 HDMI Output, 16 HDMI Inputs
- HDMI and HDCP compliant
- Supports video bandwidth up to 6.75 Gbps
- Supports wide range of PC resolutions from VGA to WUXGA 1920x1200 and HDTV/DTV resolutions 480i/480p, 576i/576p, 720p, 1080i and 1080p
- Compatible with all HDMI sources and displays
- Supports Digital Video TMDS formats in Deep Color 36bits
- Supports color depth of up to 36
- Bi-direction color space conversion(SCS) between RGB and YCBCR color spaces
- Auto-Scan input and outputs status via LED display on front panel
- Control by Select buttons on front panel or IR Remote Controller
- IR Extenderwith 1000ft long distance
- Ear mount and 19 inch Rack mountable type panel
- Power supply 12V DC

SPECIFICATIONS

- 1x16 HDMI Distributor: 1 x HDMI Input to16x HDMI Outputs
- Supports :HDMI Standard, DVI and HDCP Compliant
- Video Support: HDMI formats up to 1080p or1920x1200 and DVI up to WUXGA 1920x1200 HD resolutions.
- Audio Support: DTS-HD Master Audio, Dolby True -HD & Dolby Digital Plus
- Compliant standard: HDMI, DVI and HDCP.
- HDTV Support: HDMI formats up to 1080p or 1920x1200 and WUXGA 1920x1200 resolution.
- Controls: Manual or IR Remote and IR Extender (Maximum Distance 300M)
- Data Rates: 6.75 Gbps.
- Pixel clocks: 25MHz to 225 Mhz.
- HDMI Cable Distance: 45ft at 6.75Gbps.
- Supports digital video standards such as: RGB/YCBCR : 24/30/36-bits; YCBCR :8/10/12/16/20/24-bits; Double data rate interface for RGB/YCBCR : 12/15/18-bits
- Infrared frequency: 38KHz.
- Safety Approvals: CE, FCC, RoHS.
- PowerSupply: 12V DC

PACKAGE CONTENTS

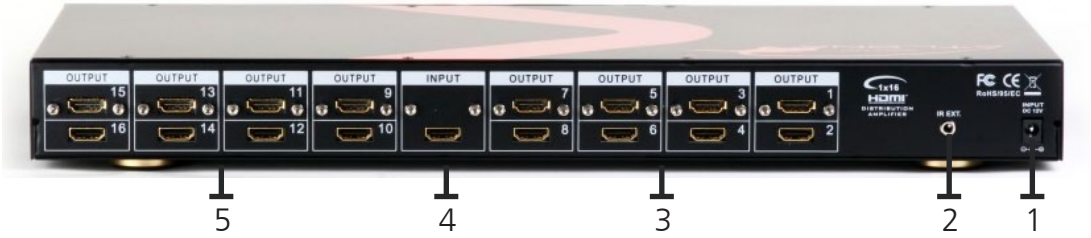
- 1x16 Splitter Unit (AT-HD-V116)
- Instruction Manual
- IR Remote Control
- Universal AC/DC power adapter: 12VDC
- 19 inch Ear mount pair
- IR Extender receiver

PANEL DESCRIPTION

1. Front Panel

1. **POWER SWITCH.** The power switch turns the unit on and off. The LED will illuminate red to indicate that the switcher is ON
2. **INPUT SOURCES STATUS DISPLAY.** Input source 1 LED illuminate blue to indicate desired video source is present on that input.
3. **OUTPUT SOURCES STATUS DISPLAY.** Output 1-16Status shows by LED display.
4. **IR SENSOR.** The IR sensor receives IR commands from the supplied remote controller.
5. **19 INCH EAR MOUNT PAIR.** 19inch case Ear Mount pair

2. Rear Panel



1. **DC POWER INLET**. Power Input: 12VDC
2. **IR EXTENDER CONTROL**. Support one of IR Extender' extend distance maximum 300Meters
4. **VIDEO INPUTS**: HDMI Input 1
   HDMI digital video/audio connector: HDMI Female connector.
3, 5. **VIDEO OUTPUTS**: HDMI Outputs 1-16
   HDMI digital video/audio connector: HDMI Female connector.

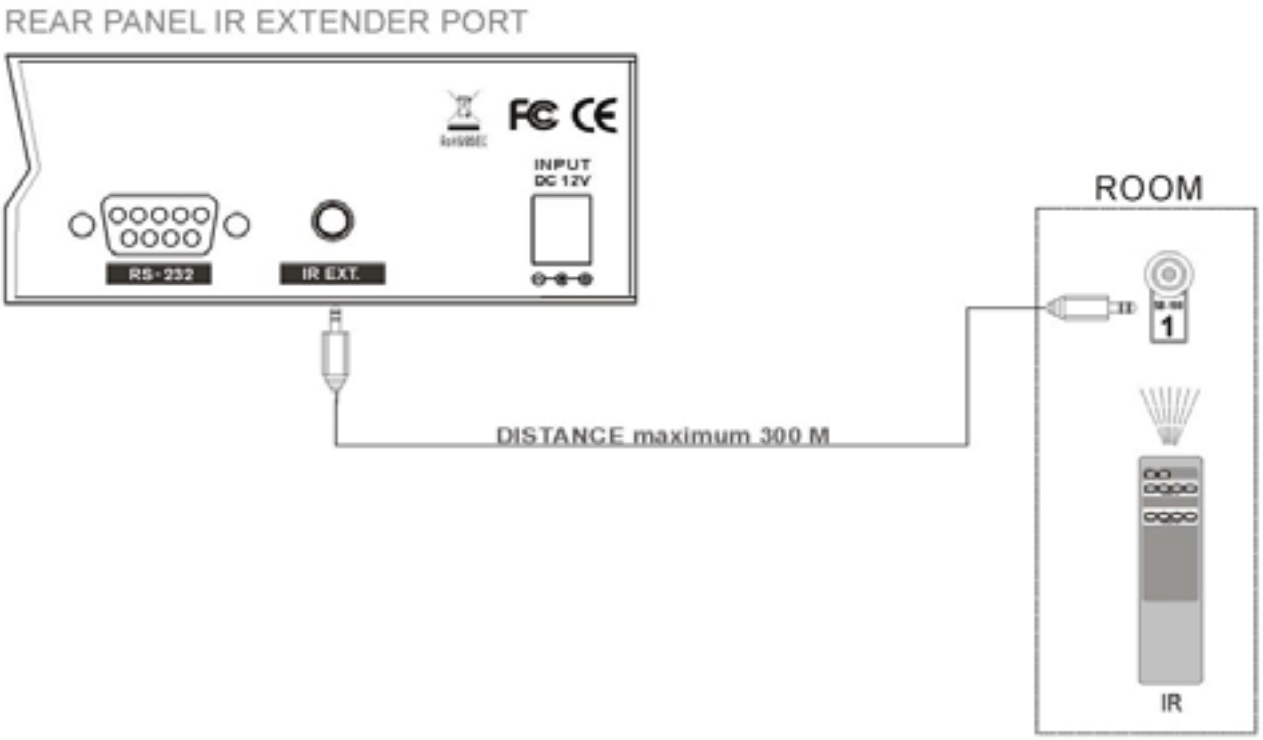
REMOTE CONTROL

Ensure the mains voltage supply matches the label on the supplied plug-Pack (+/- 10%)
Ensure that the power switch is OFF.
Connect all audio video sources and destination equipment.
Power up all HD Source and Displays.
For each desired output select the appropriate input by using the front panel select buttons or IR remote control .
When powering up the AT-HD-V116 will return to its last used setting before Powered down.

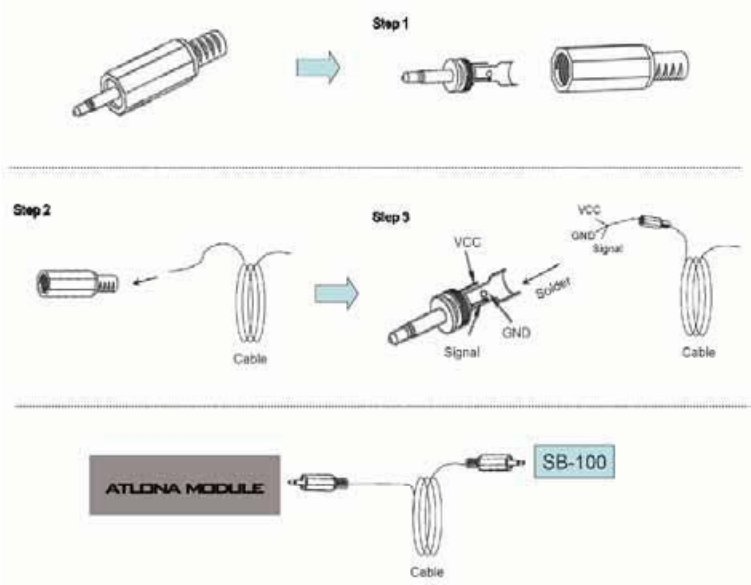
1,2. SWITCH POWER ON OR OFF

IR EXTENDER

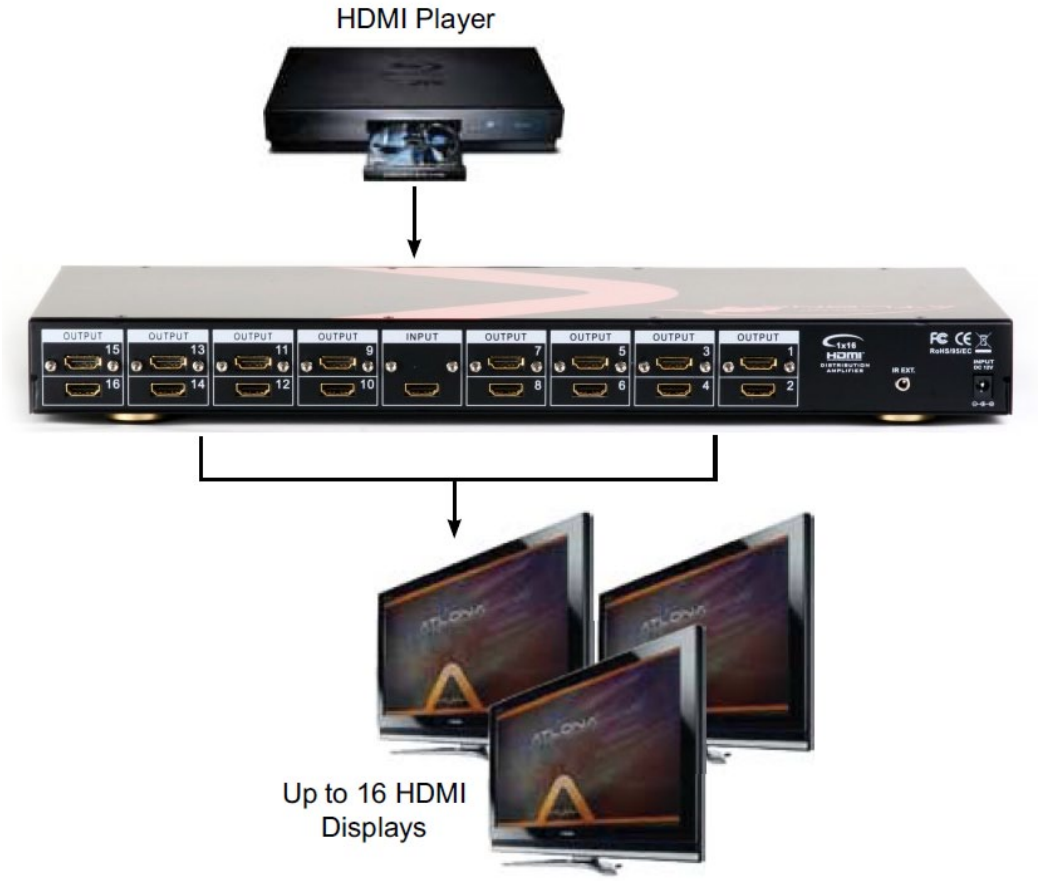
1. IR Extender Connection



2. The IR Extender Components Setup



APPLICATIONS



SAFETY INFORMATION

Safeguards

To reduce the risk of electric shock, do not expose this product to rain or moisture

Do not modify the wall plug. Doing so will void the warranty and safety features.

If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.

This equipment should be installed near the socket outlet and the device should be easily accessible in the case it requires disconnection.

Precautions

FCC regulations state that any unauthorized changes or modifications to this equipment, not expressly approved by the manufacturer, could void the user's authority to operate this equipment.

Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product, or cause fires.

In the event of an electrostatic discharge this device may automatically turn off. If this occurs, unplug the device and plug it back in.

Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins or cord exit points from this product.

Avoid excessive humidity, sudden temperature changes or temperature extremes.

Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements, fish tanks, and swimming pools.

Use only accessories recommended by Atlona to avoid fire, shock, or other hazards.

Unplug the product before cleaning. Use a damp cloth for cleaning and not cleaning fluid or aerosols.
Such products could enter the unit and cause damage, fire, or electric shock. Some substances may also mar the finish of the product.

Never open, remove unit panels, or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-HD-V116. Opening the product will void the warranty.

Do not attempt to service the unit. Disconnect the product and contact your authorized Atlona reseller or contact Atlona directly.

WARRANTY

Limited Warranty

Atlona Technologies warrants that (a) its products (the AT-HD-V116) will perform substantially in accordance with the accompanying written materials for a period of 3 years from the date of receipt and (b) that the product will be free from defects in materials and workmanship under normal use and service for a period of 3 years. In the event applicable law imposes any implied warranties, the implied warranty period is limited to 3 years from the date of receipt. Some jurisdictions do not allow such limitations on duration of an implied warranty, so the above limitation may not apply to customers that fall within those areas.

Customer Remedies

Atlona Technologies' and its suppliers' entire liability and Customer's exclusive remedy shall be, at Atlona Technologies' decision, either return of the price paid for the product, repair, or replacement of the product that does not meet this Limited Warranty and which is returned to Atlona Technologies with a copy of the Customer's receipt. This Limited Warranty is void if failure of the product has resulted from accident, abuse, misapplication, or natural occurrence. In example but not limited to: power surges (electrical storms, local power outage), dropping the product (or items on the product), contact with fluids, and physical misconduct (i.e. kicking or punching). Any replacement product will be warranted for the remainder of the original warranty period.

No other warranties

To the maximum extent permitted by applicable law, Atlona Technologies and its suppliers disclaim all other warranties, either expressed or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose, with regard to the product and any related written materials. This Limited Warranty gives customer specific legal rights. Customers may have other rights depending on the jurisdiction.

No liability for damages

To the maximum extent permitted by applicable law, in no event shall Atlona Technologies or its suppliers be liable for any damages arising out of the use of or inability to use this product, even if Atlona Technologies has been advised of the possibility of such damages. Such damages include but are not limited to: special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss. Atlona Technologies' and its suppliers' entire liability under any provision of this agreement shall be limited to the amount actually paid by you for the product. Some Jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damage. The above limitations may not apply to you in such jurisdictional cases.

ATLONA PRODUCT REGISTRATION

Thank you for purchasing this Atlona product. - We hope you enjoy it and will take an extra few moments to register your new purchase.

Registration creates an ownership record if your product is lost or stolen and helps ensure you'll receive notification of performance issues and firmware updates.

At Atlona, we respect and protect your privacy, assuring you that your registration information is completely secure. Atlona product registration is completely voluntary and failure to register will not diminish your limited warranty rights.

To register go to: http://www.atlona.com/registration